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EXAMINER
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MAUNG, ZARNI

ART UNIT	PAPER NUMBER
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2154

DATE MAILED: 11/17/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Applicati n N .

09/420,457

Applicant(s)

YAMAMOTO, TAKESHI

Examiner

Zarni Maung

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 11 August 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-9, 11-24 and 26-30 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-9, 11-24 and 26-30 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. §§ 119 and 120**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a) ☐ All b) ☐ Some \* c) ☐ None of:  
1. ☐ Certified copies of the priority documents have been received.  
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  
\* See the attached detailed Office action for a list of the certified copies not received.
- 13) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.  
a) ☐ The translation of the foreign language provisional application has been received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.

**Attachment(s)**

- 1) ☐ Notice of References Cited (PTO-892) 4) ☐ Interview Summary (PTO-413) Paper No(s). \_\_\_\_\_
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) ☐ Notice of Informal Patent Application (PTO-152)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) \_\_\_\_\_ 6) ☐ Other: \_\_\_\_\_

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1. This action is responsive to the amendment and remarks filed on 8/11/03.

Claims 1 – 9, 11 – 24, and 26 - 30 are pending.

***Claim Rejections - 35 USC § 103***

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 1 – 9, 11, 16 – 24, and 26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Basu et al., U.S. Patent No. 6,097,733, in view of Zhang et al., U.S. Patent No. 6,181,711, further in view of Hooper et al., U.S. Patent No. 5,414,455, further in view of Shaw, U.S. Patent No. 6,356,945.
4. As to claims 1 and 16, Basu teaches an Internet interface means for establishing an interface with the Internet (col. 3, lines 32 – 35) and mobile interface means for establishing an interface with a mobile network (col. 6, lines 8 – 12.) However, Basu does not specifically teach a protocol processing means for applying a protocol process to information which are processed by the Internet interface means and the mobile interface means; and an image information edit processing means for editing a display characteristic of image information which is extracted by the protocol processing means

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into image information suitable for mobile communication, wherein said display characteristic being at least one of a screen size of the image information and a color depth of the image information.

5. Zhang teaches a protocol processing means for applying a protocol process to information (Fig.4, reference characters 400 – 410; col. 9, lines 60 - 63); and an image information edit processing means for editing image information which is extracted by the protocol processing means into image information suitable for mobile communication, (see col. 10, lines 31–40).

6. It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Zhang with Basu because Zhang's protocol processing and information edit processing enables the system to reduce the bit error rate of digital video (Zhang, col. 4, lines 12 – 16.)

7. The combination of Zhang and Basu fails to teach a storage unit for storing the image information which is edited by the image information edit processing means and a storage unit controlling means for controlling to store the image information in the storage unit and to read the stored image information.

8. Hooper teaches a storage unit for storing the image information which is edited by the image information edit processing means (col. 12, lines 23 – 24) and a storage

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unit controlling means for controlling to store the image information in the storage unit and to read the stored image information (col. 12, lines 24 – 25.)

9. It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Hooper with the combination of Basu and Zhang because Hooper's storage unit and storage unit controller enables the system to provide interactive control of the image information, increasing the system's functionality (Hooper, col. 1, lines 28 – 30.)

10. The combination of Zhang, Basu, and Hooper fail to teach that the image information edit processing means edits a display characteristic of image information by thinning the images information, wherein said display characteristic being at least one of a screen size of the image information and a color depth of the image information.

11. Shaw teaches editing a display characteristic of image information by thinning the images information (col. 8, lines 46 – 49.), wherein said display characteristic being at least one of a screen size of the image information and a color depth of the image information (see col. 8, line 31 to col. 10, lines 31; size of image and color depth of the image information are inherently included in the process of reconstruction and re-quantization of images in MPGE, H.261 and video sequences.)

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12. It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Shaw with the combination of Zhang, Basu, and Hooper because Shaw's editing simplifies the transfer of data from one device to another (Shaw, col. 1, lines 50 – 52.)

The combination does not teach a transmission timing control processing means for informing the storage unit controlling means of a transmission timing so as to transmit the image information continuously every unit time.

Zhang teaches a transmission timing control processing means for informing the storage unit controlling means of a transmission timing so as to transmit the image information continuously every unit time (col. 18, lines 8 – 10.)

13. As to claims 2 and 17, Zhang teaches that the image information which is transmitted/received in respective interfaces of said Internet interface means, said mobile interface means, said protocol processing means, said image information edit processing means, and said storage unit controlling means is communicated in a cellulated format (Zhang, col. 3, lines 6 – 10.)

14. As to claims 3 and 18, the combination of Basu, Zhang, Hooper, and Shaw teach the invention as claimed with respect to claim 1 above. Basu further teaches a mobile protocol reception processing means for receiving information from the mobile network and then informing the protocol processing means (Fig. 3, reference characters 304,

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306) and a mobile protocol transmission means for transmitting information from the protocol processing means and the storage unit controlling means to the mobile network via a transmission process (Fig. 3, reference characters 310, 312.)

15. It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Zhang with Basu because Zhang's timing enables the system to reduce transmission delays (Zhang, col. 4, lines 12 – 16.)

16. As to claims 4 and 19, Basu teaches an Internet protocol reception processing means for performing a communication process of the information received from the Internet (Basu, Fig. 5, reference character 510) and then informing the protocol processing means; and an Internet protocol transmission processing means for transmitting the information received from the protocol processing means to the Internet (Basu, Fig. 5, reference character 504.)

17. As to claims 5 and 20, the Basu teaches that said Internet interface means includes an interface for cellulating the information to communicate communication information and the image information when the Internet protocol reception processing means and the Internet protocol transmission processing means communicate with the protocol processing means (Basu, col. 10, lines 52 – 54.)

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18. As to claims 6 and 21, Zhang teaches an Internet protocol address analysis processing means for analyzing that the information from the Internet interface means correspond to either of communication information and image information (Zhang, col. 10, lines 6 – 9); an image information protocol processing means for executing a protocol process of the image information from Internet protocol address analysis processing means (Zhang, col. 10, lines 20 – 22); a data reproduction processing means for processing the image information which are protocol-processed by the image information protocol processing means to reproduce original information (Zhang, col. 10, lines 27 – 30); and a communication network protocol processing means for protocol-processing the information supplied to the Internet and the mobile network (Zhang, col. 10, lines 58 – 62.)

19. As to claims 7 and 22, Shaw teaches a reproduced data storage unit for storing the image information reproduced by the protocol processing means (col. 3, lines 63 – 65); a received data managing means for managing writing/reading of reproduced data into/from the reproduced data storage unit (col. 5, lines 33 – 36); and a reproduced data editing means for editing the reproduced data read from the reproduced data storage unit into a format which is suitable for the mobile terminal (col. 4, lines 1 – 5.)

20. As to claims 8 and 23, the combination of Basu, Zhang, Hooper, and Shaw teach the invention as claimed with respect to claims 3 and 18. The combination further teaches an asynchronous information processing means for processing asynchronous



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communication information from the protocol processing means (Basu, col. 10, lines 41 – 42); a synchronous information processing means for processing synchronous image information from the storage unit controlling means (Basu, col. 10, lines 42 – 44); a transmission buffer for transmitting the information to the mobile network (Basu, col. 10, lines 66 – 67); and an information write controlling means for controlling to write the image information from the synchronous information processing means into the transmission buffer (Basu, col. 13, lines 37 – 39.) However, Basu does not specifically teach that the image information processed by the synchronous information processing means are transmitted to the mobile network prior to the communication information so as to allow continuous reproduction of the image information.

21. Nevertheless, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the combination of Basu, Zhang, Hooper, and Shaw such that the image information processed by the synchronous information processing means are transmitted to the mobile network prior to the communication information so as to allow continuous reproduction of the image information because such a modification would enable the system to reduce the likelihood of excessive and jittery delays (Zhang, col. 2, lines 60 – 67.)

22. As to claims 9 and 24, the combination of Basu, Zhang, and Hooper teach the invention as claimed with respect to claims 1 and 16 above. Zhang further teaches an edit data split processing means for splitting edited information edited by the image

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information processing means into cellulated information (col. 18, lines 34 – 36.)

However, Zhang fails to teach a storage unit managing means for managing reading process/writing process from/into the storage unit; a data storage processing means for instruction the storage unit managing means of writing of split data edited by the edit data split processing means; and a data read processing means for instructing the storage unit managing means of reading in response to a reading timing instruction issued from the mobile interface means.

23. Hooper teaches a storage unit managing means for managing reading process/writing process from/into the storage unit (col. 11, lines 35 – 38); a data storage processing means for instruction the storage unit managing means of writing of split data edited by the edit data split processing means (col. 11, lines 33 – 34, 38 – 40); and a data read processing means for instructing the storage unit managing means of reading in response to a reading timing instruction issued from the mobile interface means (col. 11, lines 45 – 48.)

24. It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Hooper with Zhang for the reasons given above in paragraph 9.

25. As to claims 11 and 26, Basu teaches mobile interface means for establishing an interface with a mobile network (col. 6, lines 8 – 12) wherein image information is

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communicated between the mobile terminals (col. 2, lines 4 –7, 18 – 23.) However, Basu does not teach a protocol processing means for processing protocol of image information from the mobile terminal; and an image information edit processing means for editing image information into edited information suitable for mobile communication.

26. Zhang teaches a protocol processing means for processing protocol of image information from the mobile terminal (Fig.4, reference characters 400 – 410; col. 9, lines 60 - 63); and an image information edit processing means for editing image information into edited information suitable for mobile communication (col. 10, lines 31 – 40.)

27. It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Basu with Zhang for the reasons given above in paragraph 6.

28. The combination of Basu and Zhang fail to teach a storage unit for storing the image information which is edited by the image information edit processing means and a storage unit controlling means for controlling to store the image information in the storage unit and to read the stored image information.

29. Hooper teaches a storage unit for storing the image information which is edited by the image information edit processing means (col. 12, lines 23 –24) and a storage

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unit controlling means for controlling to store the image information in the storage unit and to read the stored image information (col. 12, lines 24 – 25.)

30. It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Hooper with the combination of Basu and Zhang for the reasons given above in paragraph 9.

31. The combination of Zhang, Basu, and Hooper fail to teach that the image information edit processing means edits a display characteristic of image information, wherein said display characteristic being at least one of a screen size of the image information and a color depth of the image information

32. Shaw teaches editing a display characteristic of image information (col. 8, lines 46 – 49.), wherein said display characteristic being at least one of a screen size of the image information and a color depth of the image information (see col. 8, line 31 to col. 10, lines 31; size of image and color depth of the image information are inherently included in the process of reconstruction and re-quantization of images in MPGE, H.261 and video sequences).

33. It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Shaw with the combination of Zhang,

Basu, and Hooper because Shaw's editing simplifies the transfer of data from one device to another (Shaw, col. 1, lines 50 – 52.)

34. Claims 12 and 27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Shaw.

35. As to claims 12 and 27, Shaw teaches the invention as claimed, including an image information processing means for converting plural types of image information formats, into a common image information format, which can be handled commonly (col. 3, line 60 – col. 4, line 5.) However, Shaw fails to teach that the plural types of image information formats are handled by respective terminals or that the common image information format can be handled commonly in communication with the mobile network.

36. Nevertheless, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the invention of Shaw to include plural image formats handled by respective terminals and common image formats handled commonly in communication with the mobile because Shaw suggests such modifications (col. 3, lines 48 – 50, 52 – 54) and because such a modification would permit mobile networks and mobile terminals to convey live video in an efficient and effective architecture (Shaw, col. 1, lines 49 – 53.)

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37. Claims 13 – 15 and 28 - 30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Basu in view of Zhang, further in view of Shaw.

38. As to claims 13 and 28, Basu teaches a mobile interface means for establishing an interface with a mobile network in communication with a mobile network (col. 6, lines 8 – 12) wherein image information is communicated between the mobile terminals (col. 2, lines 4 – 7, 18 – 23.) However, Basu does not teach protocol processing means for processing protocol of image information from the mobile terminal.

39. Zhang teaches protocol processing means for processing protocol of image information from the mobile terminal (Fig.4, reference characters 400–410; col. 9, lines 60 – 63.)

40. It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Basu with Zhang for the reasons given above in paragraph 6.

41. The combination of Basu and Zhang fails to teach an image information conversion processing means for converting the image information into a common image information format; a storage unit for storing converted image information; a storage unit controlling means for controlling to store the image information into the storage unit and to read stored image information; or an image information custom

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processing means for editing a display characteristic of the image information into the image information which is suitable for respective mobile terminals, wherein said display characteristic being at least one of a screen size of the image information and a color depth of the image information.

42. Shaw teaches an image information conversion processing means for converting the image information into a common image information format (col. 3, lines 62 – 65); a storage unit for storing converted image information (col. 3, line 38, 64 – 65); a storage unit controlling means for controlling to store the image information into the storage unit and to read stored image information (col. 7, lines 43 – 47); and an image information custom processing means for editing a display characteristic of the image information into the image information read from the storage unit which is suitable for respective mobile terminals (col. 3, line 65 – col. 4, line 5; col. 8, lines 46 – 49.), wherein said display characteristic being at least one of a screen size of the image information and a color depth of the image information (see col. 8, line 31 to col. 10, lines 31; size of image and color depth of the image information are inherently included in the process of reconstruction and re-quantization of images in MPGE, H.261 and video sequences).

43. It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Shaw with the combination of Basu and Zhang because Shaw's conversion, storage, and custom processor improves the efficiency of the apparatus (Shaw, col. 1, lines 49 – 53.)

44. As to claims 14 and 29, Basu teaches a mobile interface means for establishing an interface with a mobile network in communication with a mobile network (col. 6, lines 8 – 12) wherein image information is communicated between the mobile terminals (col. 2, lines 4 – 7, 18 – 23.) However, Basu does not teach protocol processing means for processing protocol of image information from the mobile terminal.

45. Zhang teaches protocol processing means for processing protocol of image information from the mobile terminal (Fig.4, reference characters 400 – 410; col. 9, lines 60 – 63.)

46. It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Basu with Zhang for the reasons given above in paragraph 6.

47. The combination of Basu and Zhang fails to teach an image information conversion processing means for converting the image information into a common image information format; a storage unit for storing converted image information; a storage unit controlling means for controlling to store the image information into the storage unit and to read stored image information; or an image information custom processing means for editing the image information into the image information which is suitable for respective mobile terminals, wherein said display characteristic being at



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least one of a screen size of the image information and a color depth of the image information, wherein the image information read from the storage unit is supplied constantly to the mobile network to deliver broadcast.

48. Shaw teaches an image information conversion processing means for converting the image information into a common image information format (col. 3, lines 62 – 65); a storage unit for storing converted image information (col. 3, line 38, 64 – 65); a storage unit controlling means for controlling to store the image information into the storage unit and to read stored image information (col. 7, lines 43 – 47); and an image information custom processing means for editing a display characteristic of the image information into the image information read from the storage unit which is suitable for respective mobile terminals (col. 3, line 65 – col. 4, line 5; col. 8, lines 46 – 49), wherein said display characteristic being at least one of a screen size of the image information and a color depth of the image information (see col. 8, line 31 to col. 10, lines 31; size of image and color depth of the image information are inherently included in the process of reconstruction and re-quantization of images in MPGE, H.261 and video sequences); and the image information read from the storage unit is supplied constantly to the mobile network to deliver broadcast (col. 4, lines 36 – 39.)

49. It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Shaw with the combination of Basu

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and Zhang because Shaw's conversion, storage, and custom processor improves the efficiency of the apparatus (Shaw, col. 1, lines 49 – 53.)

50. As to claims 15 and 30, Basu teaches an Internet interface means for establishing an interface with the Internet (col. 3, lines 32 – 35.) However, Basu does not teach protocol processing means for processing protocol of image information from the mobile terminal.

51. Zhang teaches protocol processing means for processing protocol of image information from the mobile terminal (Fig.4, reference characters 400 – 410; col. 9, lines 60 – 63.)

52. It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Basu with Zhang for the reasons given above in paragraph 6.

53. The combination of Basu and Zhang fails to teach an image information conversion processing means for converting the image information into a common image information format; a storage unit for storing converted image information; a storage unit controlling means for controlling to store the image information into the storage unit and to read stored image information; or an image information custom processing means for editing and processing a display characteristic of the image

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information read by the storage unit controlling means to meet a mobile communication.), wherein said display characteristic being at least one of a screen size of the image information and a color depth of the image information.

54. Shaw teaches an image information conversion processing means for converting the image information into a common image information format (col. 3, lines 62 – 65); a storage unit for storing converted image information (col. 3, line 38, 64 – 65); a storage unit controlling means for controlling to store the image information into the storage unit and to read stored image information (col. 7, lines 43 – 47); and an image information custom processing means for editing and processing the image information read by the storage unit controlling means to meet a communication (col. 3, line 65 – col. 4, line 5; col. 8, lines 46 – 49.), wherein said display characteristic being at least one of a screen size of the image information and a color depth of the image information (see col. 8, line 31 to col. 10, lines 31; size of image and color depth of the image information are inherently included in the process of reconstruction and re-quantization of images in MPGE, H.261 and video sequences).

55. It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Shaw with the combination of Basu and Zhang because Shaw's conversion, storage, and custom processor improves the efficiency of the apparatus (Shaw, col. 1, lines 49 – 53.)

***Response to Arguments***

56. Applicants' arguments filed on August , 2002 have been fully considered but they are not persuasive.

57. With respect to applicants' remarks, applicants argued in substance that (a) the references fail to teach thinning the image information and changing color depth or image size; and (b) Shaw does not teach or suggest "image information formats, which are handled by respective mobile terminals" or "a common image format, which can be handled commonly in communication with the mobile network".

58. The Examiner respectfully traverses applicant's remarks. As to point (a), Shaw teaches the process of editing a display characteristic of image information by thinning the images information (col. 8, lines 46 – 49.), wherein said display characteristic being at least one of a screen size of the image information and a color depth of the image information (see col. 8, line 31 to col. 10, lines 31; size of image and color depth of the image information are inherently included in the process of reconstruction and re-quantization of images in MPGE, H.261 and video sequences.)

As to point (b), Shaw teaches "image information formats, which are handled by respective mobile terminals" and "a common image information format" as discussed in paragraph 35 above. Although Shaw does not explicitly teach that the common image information format "can be handled commonly in communication with the mobile

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network" such a modification would have been obvious to one of ordinary skill in the art, as discussed in paragraph 36, supra.


#### Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Zarni Maung whose telephone number is (703) 308-6687. The examiner can normally be reached on Monday-Friday from 9:30 to 6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ms. Meng An, can be reached on (703) 305-9678. The fax phone number for this Group is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 305-9600.

November 14, 2003

  
ZARNI MAUNG  
PRIMARY EXAMINER